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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/077,601	02/15/2002	Pengfei Wu	1823430.00121US1	1545	
23483 WILMERHAI	7590 08/15/200 F/BOSTON	8	EXAMINER		
60 STATE ST	REET	ANGEBRANNDT, MARTIN J			
BOSTON, MA	A 02109		ART UNIT	PAPER NUMBER	
	_			1795	
			NOTIFICATION DATE	DELIVERY MODE	
			08/15/2008	EL ECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/077,601	WU ET AL.		
Examiner	Art Unit		
Martin J. Angebranndt	1795		

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The MAILING DATE of this communication appe	ars on the cover sheet with the o	correspondence add	ress
THE REPLY FILED 8/4/08 FAILS TO PLACE THIS APPLICATION	ON IN CONDITION FOR ALLOWA	NCE.	
1. \(\times \) The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following i application in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C periods: a) \(\times \) The period for reply expires \(\times \) months from the mailing b) \(\times \) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire is	replies: (1) an amendment, affidavial (with appeal fee) in compliance: FR 1.114. The reply must be filed to date of the final rejection. divisory Action, or (2) the date set forthite than SIX MONTHS from the mailting.	t, or other evidence, whith 37 CFR 41.31; or within one of the following the final rejection, while date of the final rejection.	thich places the (3) a Request ving time chever is later. In in.
Examiner Note: If box 1 is checked, check either box (a) or (I MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f		FIRST REPLY WAS FI	ED WITHIN TWO
Extensions of time may be obtained under 37 CFR 1.136(a). The date whave been filled is the date for purposes of determining the period of exhaunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any pely received by the Office are may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	on which the petition under 37 CFR 1.1: ension and the corresponding amount of hortened statutory period for reply origi	of the fee. The appropria nally set in the final Office	ate extension fee e action; or (2) as
 The Notice of Appeal was filed on A brief in compl filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed with 	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	
AMENDMENTS			
 The proposed amendment(s) filed after a final rejection, to (a) They raise new issues that would require further corn (b) They raise the issue of new matter (see NOTE below (c) They are not deemed to place the application in bett appeal; and/or (d) They present additional claims without canceling a company of the property of the property	sideration and/or search (see NOT w); er form for appeal by materially red	E below); ducing or simplifying the	
NOTE: (See 37 CFR 1.116 and 41.33(a)).			
 The amendments are not in compliance with 37 CFR 1.12 Applicant's reply has overcome the following rejection(s): Newly proposed or amended claim(s) would be all non-allowable claim(s). 			
7. \(\bigcirc \) per purposes of appeal, the proposed amendment(s): a) [I how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows: Claim(s) allowed: none. Claim(s) objected to: none. Claim(s) rejected: \(\tilde{Z} \) and \(\tilde{3} \)-65 Claim(s) withdrawn from consideration:		be entered and an e	xplanation of
 AFFIDAVIT OR OTHER EVIDENCE The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and 			
was not earlier presented. See 37 CFR 1.116(e). J The affidavit or other evidence filed after the date of filing interest because the affidavit or other evidence failed to or showing a good and sufficient reasons why it is necessary. D. The affidavit or other evidence is entered. An explanation	vercome <u>all</u> rejections under appea and was not earlier presented. Se	and/or appellant fail ee 37 CFR 41.33(d)(1	s to provide a
REQUEST FOR RECONSIDERATION/OTHER 11. ☑ The request for reconsideration has been considered but See Continuation Sheet.	does NOT place the application in	condition for allowan	ce because:
12. Note the attached Information Disclosure Statement(s). (13. Other:	PTO/SB/08) Paper No(s).		
	/Martin J Angebranndt/ Primary Examiner, Art U	nit 1795	

Continuation of 11, does NOT place the application in condition for allowance because: The difference between the invention of the instant application and that described in the Wu et al. paper is the Tg of the polymer binder. The higher Tg binder freezes out the motion of the azo dye. It is of record and well known that increasing the Tg of the polymeric binder increases the stability of the information recorded (see Natansohn et al and Hatterner et al.) therefore the difference (the effect of merely using a higher Tg binder) cannot be said to be unappreciated or unexpected in the art. The difference between the instant invention and the invention in the Jager reference is the use of pendant azobenzene compounds in the Jager reference and a guest -host system in instant application. The grating of Jager is not limited to the surface relief generated by the reorientation, but also includes a polarization sensitive grating (the phase/relief gratoting would not be). The exposure processes in the Jager et al. and Wu et al references are are the same and this presents a reasonable expecation of success in being able to record stable gratings, in addition to the transient gratings of Wu et al. There is also an expecation that the ability of the pendant azo chromophores in Jager et al. would be less able to reorient (reduced freedom of orientation) based upon them being attached to the polymer backbone. If the applicant can show an unexprected difference in the preformance of the media of Wu et al. and the instant invention (ie an effect which would not be attributable to merely a higher Tg of the binder and perhaps a difference in performance over the process of Jager et al., allowable claims might be had. The argument that the receinetation is not taught fails to appreciate the teachings of the same expecure process in Wu et al and Jager et al., and the evidence of figure 4 of Jager et al.. The examiner notes that the equivalence of quest host and pendant azo phromophore systems in recording on the basis of reorientation and isomerization is clear from the evidence of Wu et al. and Jager et al., who use the same technique for exposure of these systems. The examiner notes that exposure apparatus illustrated in figures 1 and 12 of the instant application illradiated the blue light from both sides of the medium, while most of the references illuminate only from one. There may be a benefit from this beyond just increasing the exposure, but there is no evidence of this in the record at this time. The applicant may find that the exposure from both sides results in a bebefit not realized in a similar exposure (at the same intensity) only fom one side. The applicant may submit such EVIDENCE in a proper declaration and amend the claims to obviate the rejections at hand. The applicant argues that the non-volatile nature is not due to merely to the Tg, but have not provided any EVIDENCE to support this position. The applicant could do this by adding a plasticizer to the PVA used in the inventive composition until it has the To of the PMMA used in the Wu et al. references (Wu et al. Appl. (Phys. Lett., 70(10) 1224 teaches it to have a MW of 101,000, as opposed to the 125,000-186,000 of the PVA used in the instant application and include a disclosure of the Tg of the PMMA used in the declaration. It may be that the showing is limited to the PVA and then the claims would have to be amended to be commensurate with this. The arguments that the references are non-analgeous is without merit and the isomerization of the azobenzene in the underlying theme in each of these and the Wu et al., Jager et al., . Hattener et al and Natansohn et al. all uses this to form holographic gratings.